APRIL/MAY 2025

23PECS14A — ADVANCED SOFTWARE ENGINEERING

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List any two challenges in Software engineering.
2. Mention any two desired characteristics of Software process.
3. What is meant by Requirements engineering?
4. Define the term-Software quality.
5. Specify any two responsibilities of a Software Project Manager.
6. What is Risk mitigation?
7. Define the term-Cohesion.
8. What is Coupling?
9. Define the term-Validation testing.
10. What is Regression testing?

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SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Describe about Software process.

Or

(b) Discuss on Software Configuration management process.

12. (a) Explain the structure of Software Requirement Specification.

Or

(b) Describe about Software quality management system.

13. (a) Discuss on Empirical estimation techniques.

Or

(b) Explain the concept of Scheduling.

14. (a) How to characterize a good Software design? Explain.

Or

(b) Describe about the approaches to Software design.

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15. (a) Discuss on Functional testing and Structural testing.

Or

(b) Explain the concept of Reverse engineering and Software Re-engineering.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions

16. Explain any three Software development Process models in detail.

17. Discuss on the process of Requirement analysis and Requirement documentation.

18. Describe the Metrics for Project size estimation.

19. Explain the fundamentals of Software design process.

20. Discuss on the Art of Debugging, Testing tools and Reliability estimation.

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